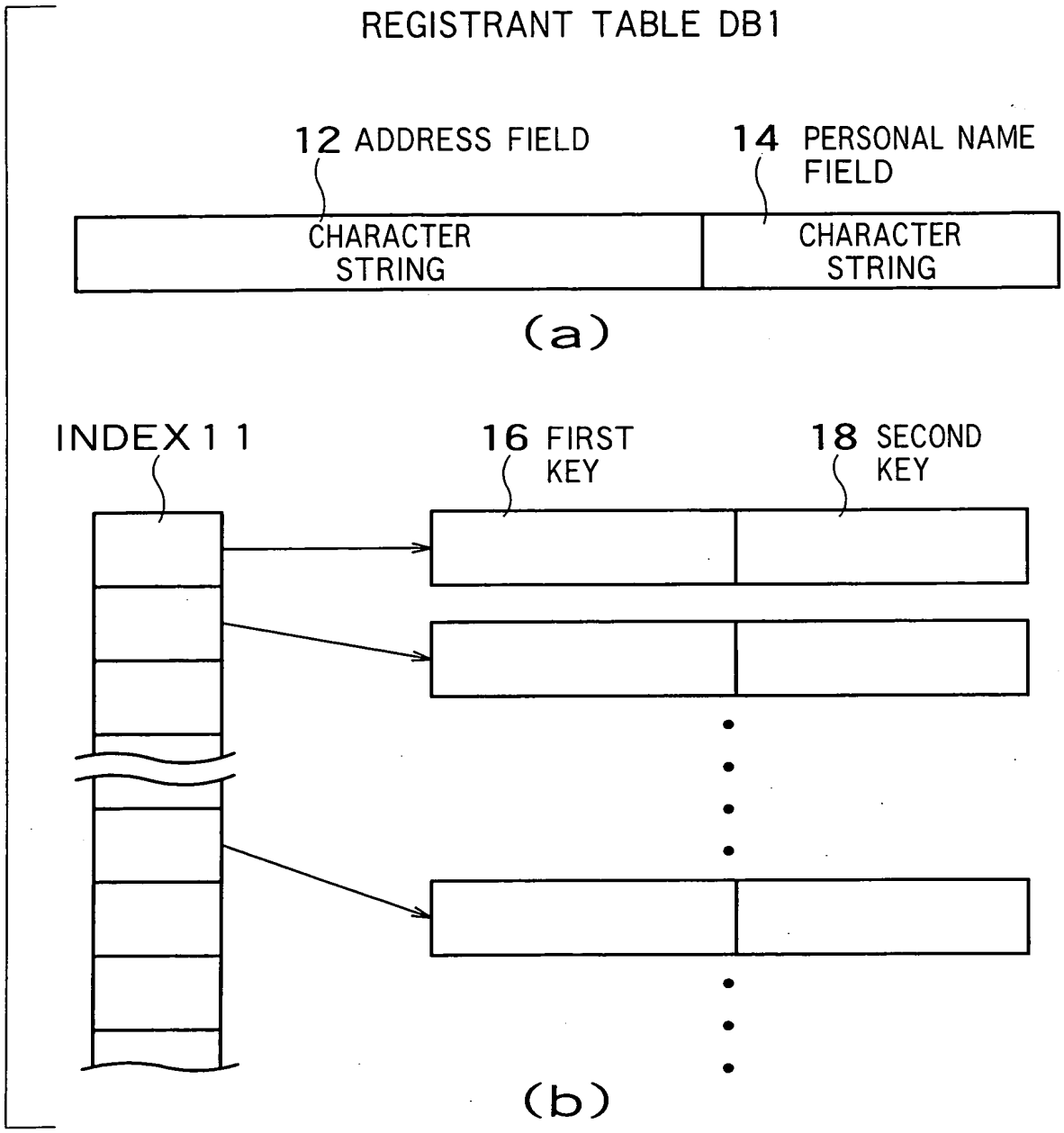
REGISTRANT TABLE DB1
12 ADDRESS FIELD
14 PERSONAL NAME FIELD
CHARACTER STRING
CHARACTER STRING
(a)
INDEX 11
16 FIRST KEY
18 SECOND KEY
(b)

FIG. 1

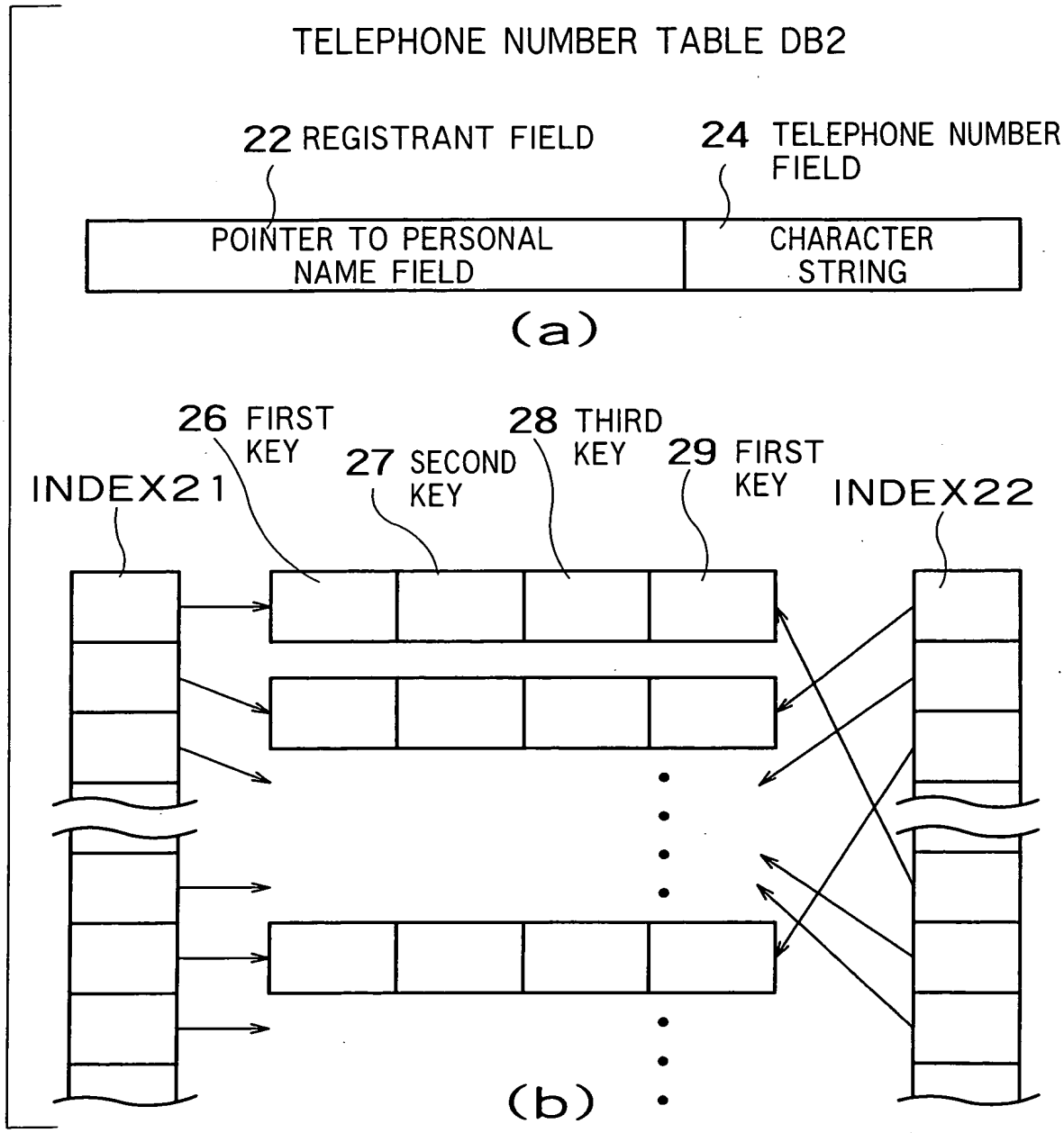
TELEPHONE NUMBER TABLE DB2
22 REGISTRANT FIELD
24 TELEPHONE NUMBER FIELD
POINTER TO PERSONAL NAME FIELD
CHARACTER STRING
(a)
26 FIRST KEY
27 SECOND KEY
28 THIRD KEY
29 FIRST KEY
INDEX21
INDEX22
(b)

FIG. 2

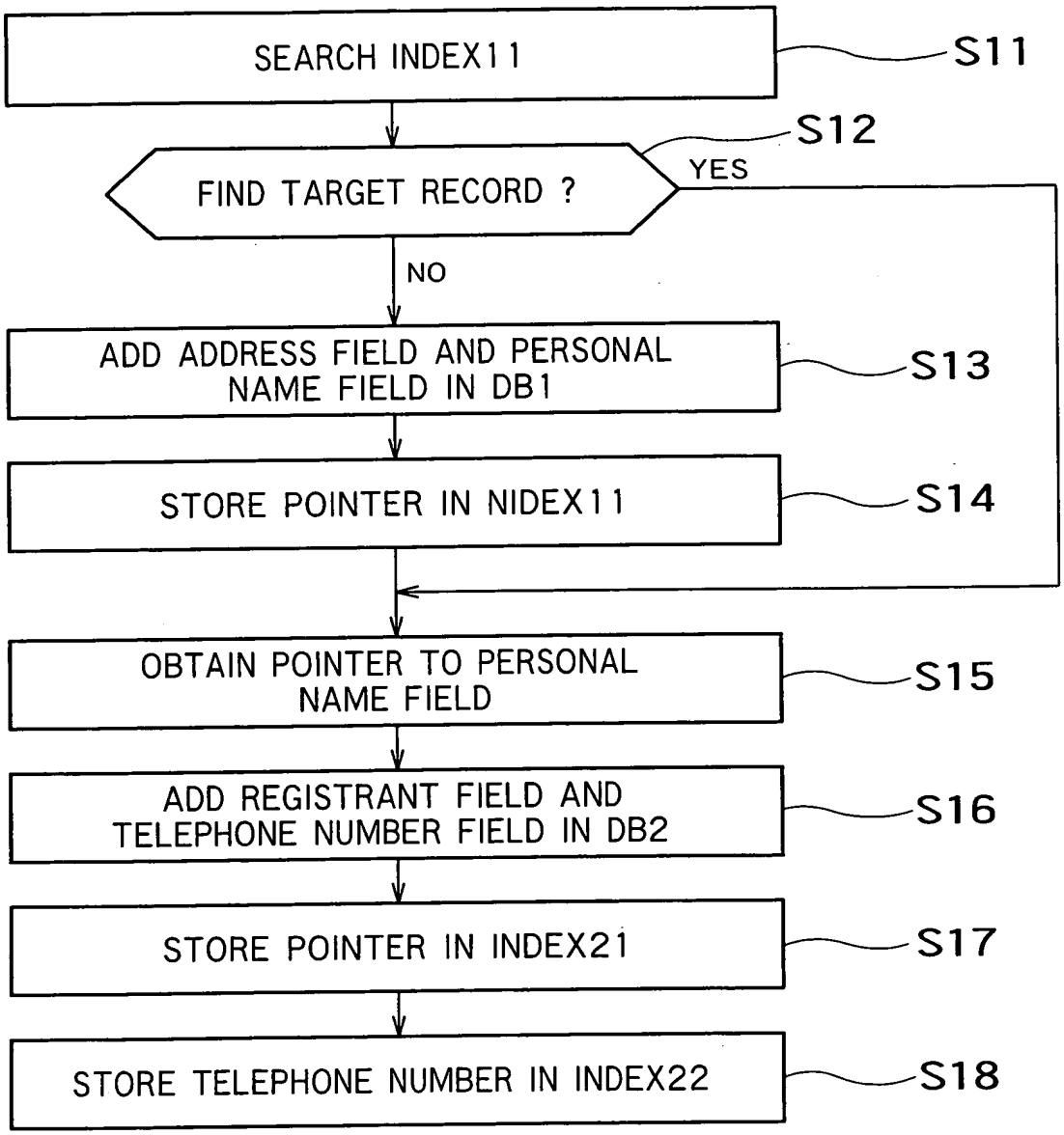
SEARCH INDEX11
S11
S12
FIND TARGET RECORD ?
YES
NO
ADD ADDRESS FIELD AND PERSONAL NAME FIELD IN DB1
S13
STORE POINTER IN NIDEX11
S14
OBTAIN POINTER TO PERSONAL NAME FIELD
S15
ADD REGISTRANT FIELD AND TELEPHONE NUMBER FIELD IN DB2
S16
STORE POINTER IN INDEX21
S17
STORE TELEPHONE NUMBER IN INDEX22
S18

FIG. 3

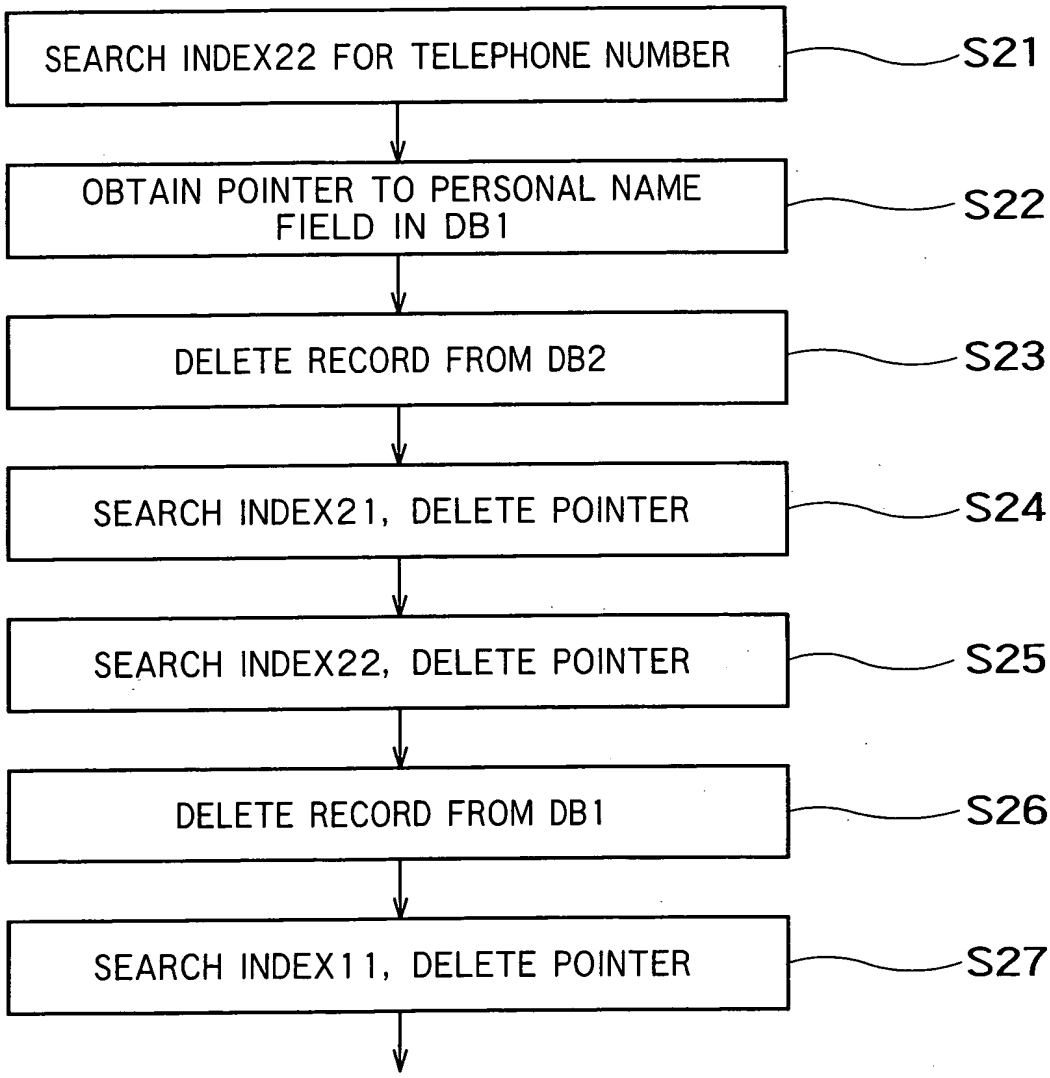
SEARCH INDEX22 FOR TELEPHONE NUMBER
S21
OBTAIN POINTER TO PERSONAL NAME FIELD IN DB1
S22
DELETE RECORD FROM DB2
S23
SEARCH INDEX21, DELETE POINTER
S24
SEARCH INDEX22, DELETE POINTER
S25
DELETE RECORD FROM DB1
S26
SEARCH INDEX11, DELETE POINTER
S27

FIG. 4

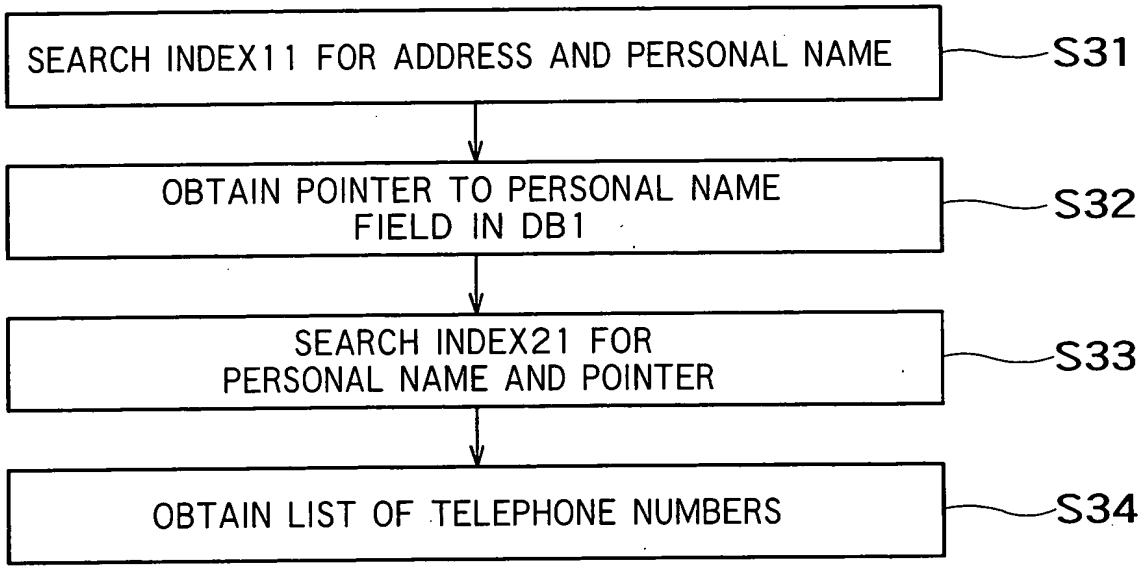
SEARCH INDEX11 FOR ADDRESS AND PERSONAL NAME
S31
OBTAIN POINTER TO PERSONAL NAME FIELD IN DB1
S32
SEARCH INDEX21 FOR PERSONAL NAME AND POINTER
S33
OBTAIN LIST OF TELEPHONE NUMBERS
S34

FIG. 5

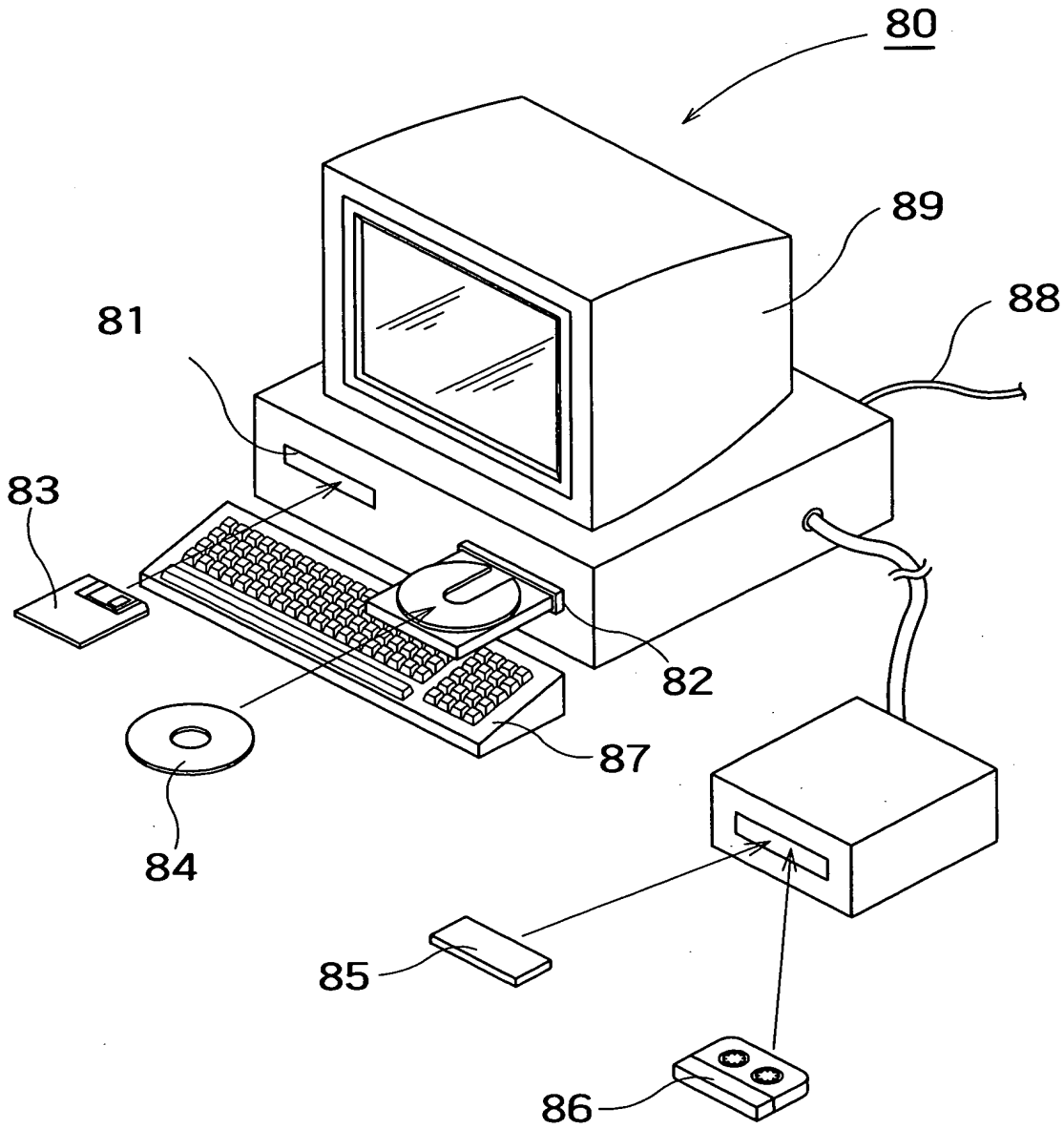

FIG. 6

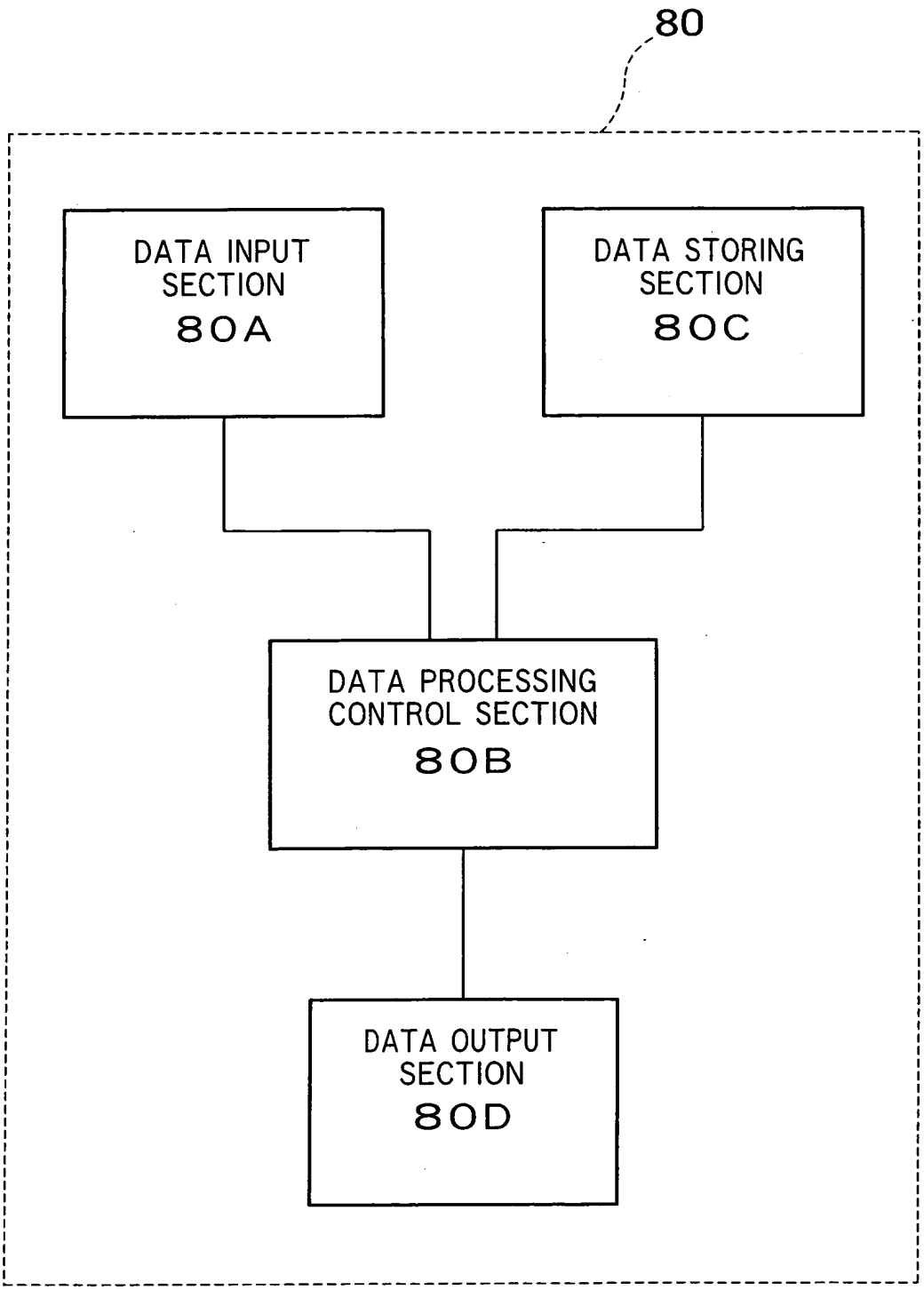
80
DATA INPUT SECTION
80A
DATA STORING SECTION
80C
DATA PROCESSING CONTROL SECTION
80B
DATA OUTPUT SECTION
80D

FIG. 7